

Earth's Energy Budget Storyboard Questions

1. (2) The amount of sunlight received on Earth is equal to? Draw a picture describing this fact.
2. (3-4) How do we detect or sense energy from the sun (2 ways)?
3. (5) What does NASA use to detect energy from the sun?
4. (7) Why is the planet Mercury considered uninhabitable?
5. (8) Why is the planet Mars considered uninhabitable?
6. (9-10) Without an atmosphere, what would be the average surface temperature on Earth?
What is the average surface temperature on Earth today?
7. (13) What in Earth's atmosphere reflects incoming solar radiation?
8. (14) What parts of Earth's surface reflect incoming solar radiation?
9. (15) What do we call the energy radiated by Earth outward to space?
10. (16) What stops most of the energy radiated outward from Earth's surface?
11. (17) Explain the greenhouse effect.
12. (18) Is heat lost or gained through evaporation?
13. (22) According to NASA, is there an imbalance in Earth's energy budget? If so, describe the imbalance and what that means for the surface temperature on Earth.
14. (26) How much energy (in flux percentages) is leaving the Earth system back out into space?
15. (27) How much energy (in flux percentages) is being absorbed by the Earth's surface? How much is being lost from Earth's surface?